WHAT IS CLAIMED IS:

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     1.   A service offering apparatus for offering services associated with objects, comprising:

     authentication information acquisition request receiving means for receiving an acquisition request for

10   requesting an acquisition of authentication information used for establishing a session having a limited right with respect to said service offering apparatus and said objects;

     authentication information transmitting means

15   for transmitting the authentication information; and

     session start request receiving means for receiving a start request for requesting a start of the session containing the authentication information from a client different from an end to which the authentication

20   information is transmitted.

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2.   The service offering apparatus as claimed in claim 1, wherein the acquisition request of the authentication request contains a list of object identifiers for identifying said objects and a list of

5   service identifiers for identifying services associated with said objects.

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3.   The service offering apparatus as claimed in claim 1, further comprising authentication information producing means for producing the authentication information in response to the

15   acquisition request of the authentication information.

20   4.   The service offering apparatus as claimed in claim 1, further comprising authentication information managing means for managing the authentication information.

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5. The service offering apparatus as claimed in claim 4, wherein said authentication information managing means manages the authentication information by relating with the list of the object identifiers for identifying said objects and the list of the service identifiers for identifying the services associated with said objects.

6. The service offering apparatus as claimed in claim 1, further comprising session producing means for producing the session in response to the start request of the session.

7. The service offering apparatus as claimed in claim 1, further comprising session managing means for managing the session.

8. The service offering apparatus as claimed in claim 7, wherein said session managing means manages the session by relating with the authentication information.

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9. The service offering apparatus as claimed in claim 1, further comprising session identifier
10   transmitting means for transmitting a session identifier for identifying the session to said client.

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10. The service offering apparatus as claimed in claim 1, further comprising use request receiving means for receiving a use request for requesting a use
20   of a service associated with said objects from said client, the use request including a session identifier for identifying the session.

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11. The service offering apparatus as claimed in claim 1, further comprising service offering means for offering a service associated with said objects in response to a use request for requesting a use of a

5   service associated with said objects from said client, the use request including a session identifier for identifying the session.

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12. The service offering apparatus as claimed in claim 1, wherein the service associated with said objects which is offered in the session is designated.

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13. A service offering method for offering

20   services associated with objects, comprising:

an authentication information acquisition request receiving step of receiving an acquisition request for requesting an acquisition of authentication information used for establishing a session having a

25   limited right with respect to said service offering

apparatus and said objects;

an authentication information transmitting step of transmitting the authentication information; and

a session start request receiving step of
5 receiving a start request for requesting a start of the session containing the authentication information from a client different from an end to which the authentication information is transmitted.

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14. The service offering method as claimed in claim 13, wherein the acquisition request of the
15 authentication request contains a list of object identifiers for identifying said objects and a list of service identifiers for identifying services associated with said objects.

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15. The service offering method as claimed in claim 13, further comprising an authentication
25 information producing step of producing the

authentication information in response to the
acquisition request of the authentication information.

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16.   The service offering method as claimed in
claim 13, further comprising an authentication
information managing step of managing the authentication
10   information.

15   17.   The service offering method as claimed in
claim 16, wherein said authentication information
managing step manages the authentication information by
relating with the list of the object identifiers for
identifying said objects and the list of the service
20   identifiers for identifying the services associated with
said objects.

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18.   The service offering method as claimed in claim 13, further comprising a session producing step of producing the session in response to the start request of the session.

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19.   The service offering method as claimed in claim 13, further comprising a session managing step of managing the session.

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20.   The service offering method as claimed in claim 19, wherein said session managing step manages the session by relating with the authentication information.

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21.   The service offering method as claimed in claim 13, further comprising a session identifier transmitting step of transmitting a session identifier

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for identifying the session to said client.

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22.   The service offering method as claimed in claim 13, further comprising a use request receiving step of receiving a use request for requesting a use of a service associated with said objects from said client, 10   the use request including a session identifier for identifying the session.

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23.   The service offering method as claimed in claim 13, further comprising a service offering step of offering a service associated with said objects in response to a use request for requesting a use of a 20   service associated with said objects from said client, the use request including a session identifier for identifying the session.

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24.   The service offering method as claimed in claim 13, wherein the service associated with said objects which is offered in the session is designated.

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25.   A processor readable medium storing a service offering program for causing a computer to
10   execute a service offering method for offering services associated with objects, the service offering method comprising:

an authentication information acquisition request receiving step of receiving an acquisition
15   request for requesting an acquisition of authentication information used for establishing a session having a limited right with respect to said service offering apparatus and said objects;

an authentication information transmitting
20   step of transmitting the authentication information; and

a session start request receiving step of receiving a start request for requesting a start of the session containing the authentication information from a client different from an end to which the authentication
25   information is transmitted.

26. The processor readable medium as claimed in claim 25, wherein the acquisition request of the authentication request contains a list of object identifiers for identifying said objects and a list of

5   service identifiers for identifying services associated with said objects.

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27. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises an authentication information producing step of producing the authentication information in response

15   to the acquisition request of the authentication information.

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28. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises an authentication information managing step of managing the authentication information.

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29. The processor readable medium as claimed in claim 28, wherein said authentication information managing step manages the authentication information by relating with the list of the object identifiers for identifying said objects and the list of the service identifiers for identifying the services associated with said objects.

30. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises a session producing step of producing the session in response to the start request of the session.

31. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises a session managing step of managing the session.

32. The processor readable medium as claimed in claim 31, wherein said session managing step manages the session by relating with the authentication information.

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33. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises a session identifier transmitting step of transmitting a session identifier for identifying the session to said client.

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34. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises a use request receiving step of receiving a use request for requesting a use of a service associated with said objects from said client, the use request including a session identifier for identifying the session.

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35. The processor readable medium as claimed in claim 25, wherein the service offering method further comprises a service offering step of offering a service associated with said objects in response to a use

5 request for requesting a use of a service associated with said objects from said client, the use request including a session identifier for identifying the session.

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36. The processor readable medium as claimed in claim 25, wherein the service associated with said

15 objects which is offered in the session is designated.

20 37. A service offering program for causing a computer to execute a service offering method for offering services associated with objects, the service offering method comprising:

an authentication information acquisition

25 request receiving step of receiving an acquisition

request for requesting an acquisition of authentication
information used for establishing a session having a
limited right with respect to said service offering
apparatus and said objects;

5   an authentication information transmitting
step of transmitting the authentication information; and
          a session start request receiving step of
receiving a start request for requesting a star of the
session containing the authentication information from a
10 client different from an end to which the authentication
information is transmitted.

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          38. The service offering program as claimed
in claim 37, wherein the acquisition request of the
authentication request contains a list of object
identifiers for identifying said objects and a list of
20 service identifiers for identifying services associated
with said objects.

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39. The service offering program as claimed in claim 37, wherein the service offering method further comprises an authentication information producing step of producing the authentication information in response

5 to the acquisition request of the authentication information.

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40. The service offering program as claimed in claim 37, wherein the service offering method further comprises an authentication information managing step of managing the authentication information.

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41. The service offering program as claimed

20 in claim 40, wherein said authentication information managing step manages the authentication information by relating with the list of the object identifiers for identifying said objects and the list of the service identifiers for identifying the services associated with

25 said objects.

42. The service offering program as claimed in claim 37, wherein the service offering method further comprises a session producing step of producing the session in response to the start request of the session.

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43. The service offering program as claimed in claim 37, wherein the service offering method further comprises a session managing step of managing the session.

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44. The service offering program as claimed in claim 43, wherein said session managing step manages the session by relating with the authentication information.

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45. The service offering program as claimed in claim 37, wherein the service offering method further comprises a session identifier transmitting step of transmitting a session identifier for identifying the

5   session to said client.

10   46. The service offering program as claimed in claim 37, wherein the service offering method further comprises a use request receiving step of receiving a use request for requesting a use of a service associated with said objects from said client, the use request

15 including a session identifier for identifying the session.

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47. The service offering program as claimed in claim 37, wherein the service offering method further comprises a service offering step of offering a service associated with said objects in response to a use

25 request for requesting a use of a service associated

with said objects from said client, the use request

including a session identifier for identifying the

session.

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        48.   The service offering program as claimed

in claim 37, wherein the service associated with said

10   objects which is offered in the session is designated.

15   49.   A service offering apparatus for offering

services associated with objects, comprising:

        session start request receiving means for

receiving a start request for requesting a start of a

session with the service offering apparatus;

20   session identifier transmitting means for

transmitting a session identifier for identifying the

session; and

        use request receiving means for receiving a

use request for requesting a use of a service associated

25   with said objects from a client different from an end to

which the session identifier is transmitted, the use
request including information regarding the session
identifier.

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50.   The service offering apparatus as claimed
in claim 49, further comprising session producing means
10   for producing the session in response to the start
request of the session.

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51.   The service offering apparatus as claimed
in claim 49, further comprising session managing means
for managing the session.

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52.   The service offering apparatus as claimed
in claim 49, further comprising service offering means
25   for offering the service associated with said objects in

response to use request of the service associated with said objects, the use request containing the information regarding the session identifier.

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53. The service offering apparatus as claimed in claim 49, wherein the information regarding the

10 session identifier includes the session identifier and an object identifier for identifying said objects.

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54. The service offering apparatus as claimed in claim 49, wherein the information regarding the session identifier includes the session identifier and a service identifier for identifying a service associated

20 with said objects.

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55. The service offering apparatus as claimed in claim 49, wherein the information regarding the session identifier is encrypted by a public key.

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56. The service offering apparatus as claimed in claim 49, further comprising public key providing

10 means for providing a public key in response to an acquisition request for requesting an acquisition of the public key.

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57. The service offering apparatus as claimed in claim 49, wherein the information regarding the session identifier is encrypted by a common key common

20 to the service offering apparatus.

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58. The service offering apparatus as claimed in claim 49, further comprising session identifier processing means for processing the session identifier.

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59. The service offering apparatus as claimed in claim 58, further comprising encrypting means for

10 encrypting the session identifier processed by said session identifier processing means.

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60. A service offering method for offering services associated with objects, comprising:

a step of receiving a start request for requesting a start of a session with the service

20 offering apparatus;

a step of transmitting a session identifier for identifying the session; and

a step of receiving a use request for requesting a use of a service associated with said

25 objects from a client different from an end to which the

session identifier is transmitted, the use request

including information regarding the session identifier.

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61. The service offering method as claimed in

claim 60, further comprising a step of producing the

session in response to the start request of the session.

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62. The service offering method as claimed in

15 claim 60, further comprising a step of managing the

session.

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63. The service offering method as claimed in

claim 60, further comprising a step of offering the

service associated with said objects in response to use

request of the service associated with said objects, the

25 use request containing the information regarding the

session identifier.

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64. The service offering method as claimed in claim 60, wherein the information regarding the session identifier includes the session identifier and an object identifier for identifying said objects.

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65. The service offering method as claimed in claim 60, wherein the information regarding the session identifier includes the session identifier and a service identifier for identifying a service associated with said objects.

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66. The service offering method as claimed in claim 60, wherein the information regarding the session identifier is encrypted by a public key.

67.   The service offering method as claimed in claim 60, further comprising a step of providing a public key in response to an acquisition request for requesting an acquisition of the public key.

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68.   The service offering method as claimed in

10   claim 60, wherein the information regarding the session identifier is encrypted by a common key common to the service offering apparatus.

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69.   The service offering method as claimed in claim 60, further comprising a step of processing the session identifier.

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70.   The service offering method as claimed in

25   claim 69, further comprising a step of encrypting the

session identifier processed by said session identifier processing means.

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71. A processor readable medium storing a service offering program for causing a computer to execute a service offering method for offering services

10 associated with objects, the service offering method comprising:

a step of receiving a start request for requesting a start of a session with the service offering apparatus;

15 a step of transmitting a session identifier for identifying the session; and

a step of receiving a use request for requesting a use of a service associated with said objects from a client different from an end to which the

20 session identifier is transmitted, the use request including information regarding the session identifier.

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72.   The processor readable medium as claimed in claim 71, wherein the service offering method further comprises a step of producing the session in response to the start request of the session.

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73.   The processor readable medium as claimed in claim 71, wherein the service offering method further comprises a step of managing the session.

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74.   The processor readable medium as claimed in claim 71, wherein the service offering method further comprises a step of offering the service associated with said objects in response to use request of the service associated with said objects, the use request containing the information regarding the session identifier.

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75. The processor readable medium as claimed in claim 71, wherein the information regarding the session identifier includes the session identifier and an object identifier for identifying said objects.

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76. The processor readable medium as claimed

10 in claim 71, wherein the information regarding the session identifier includes the session identifier and a service identifier for identifying a service associated with said objects.

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77. The processor readable medium as claimed in claim 71, wherein the information regarding the

20 session identifier is encrypted by a public key.

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78. The processor readable medium as claimed in claim 71, the service offering method further comprises a step of providing a public key in response to an acquisition request for requesting an acquisition

5   of the public key.

10   79. The processor readable medium as claimed in claim 71, wherein the information regarding the session identifier is encrypted by a common key common to the service offering apparatus.

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80. The processor readable medium as claimed in claim 71, wherein the service offering method further

20   comprises a step of processing the session identifier.

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81. The processor readable medium as claimed in claim 80, wherein the service offering method further comprises a step of encrypting the session identifier processed by said session identifier processing means.

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82. A service offering program for causing a
10 computer to execute a service offering method for offering services associated with objects, the service offering method comprising:

a step of receiving a start request for requesting a start of a session with the service
15 offering apparatus;

a step of transmitting a session identifier for identifying the session; and

a step of receiving a use request for requesting a use of a service associated with said
20 objects from a client different from an end to which the session identifier is transmitted, the use request including information regarding the session identifier.

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83.   The service offering program as claimed in claim 82, wherein the service offering method further comprises a step of producing the session in response to the start request of the session.

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84.   The service offering program as claimed in claim 82, wherein the service offering method further comprises a step of managing the session.

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85.   The service offering program as claimed in claim 82, wherein the service offering method further comprises a step of offering the service associated with said objects in response to use request of the service associated with said objects, the use request containing the information regarding the session identifier.

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86. The service offering program as claimed in claim 82, wherein the information regarding the session identifier includes the session identifier and an object identifier for identifying said objects.

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87. The service offering program as claimed in claim 82, wherein the information regarding the session identifier includes the session identifier and a service identifier for identifying a service associated with said objects.

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88. The service offering program as claimed in claim 82, wherein the information regarding the session identifier is encrypted by a public key.

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89. The service offering program as claimed in claim 82, the service offering method further comprises a step of providing a public key in response to an acquisition request for requesting an acquisition

5 of the public key.

10 90. The service offering program as claimed in claim 82, wherein the information regarding the session identifier is encrypted by a common key common to the service offering apparatus.

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91. The service offering program as claimed in claim 82, wherein the service offering method further

20 comprises a step of processing the session identifier.

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92.   The service offering program as claimed
in claim 91, wherein the service offering method further
comprises a step of encrypting the session identifier
processed by said session identifier processing means.

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